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Key topics of current research on predictability and dynamical processes

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The THORPEX working group on Predictability and Dynamical Processes (PDP) has launched 8 interest groups in order to promote open international discussions on a selection of relevant PDP topics. At the end of 2006, every interest group has compiled a brief summary of their discussions and currently efforts are made to synthesize these reports and to establish a list of key topics of current and near-future PDP research. These topics will be presented at the conference and should contribute to a concerted plan for THORPEX activities during the next years.

The topics addressed by the 8 interest groups are:

- The role of Rossby wave dynamics in predictability,
- Organized tropical convection (e.g. MJO) and weather prediction on subseasonal time scales,
- Predictability of tropical cyclones and of their extratropical transition,
- The impact of extratropical transition on the downstream midlatitude predictability,
- Ensemble prediction,
- Atmospheric blocking, low-frequency variability and their role in predictability,
- The impact of moist processes on dynamical processes and predictability in the extra-tropics,

AMMA and aspects of tropical-extratropical interactions.				